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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,471	03/24/2006	Toru Takenaka	62533.00042	9357
32294 7590 03/23/2009 SQUIRE, SANDERS & DEMPSEY L.L.P. 8000 TOWERS CRESCENT DRIVE 14TH FLOOR VIENNA, VA 22182-6212				
EXAMINER				
MARC, MC'DEUNEL				
ART UNIT		PAPER NUMBER		
3664				
MAIL DATE		DELIVERY MODE		
03/23/2009		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/573,471

**Applicant(s)**

TAKENAKA ET AL.

**Examiner**

MCDIEUNEL MARC

**Art Unit**

3664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12/02/2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date \_\_\_\_\_

### DETAILED ACTION

1. Claims 1-7 are pending.
2. The objection to the abstract is withdrawn.
3. The rejection to claims 1-7 under 35 U.S.C. 102(e) as being anticipated by **Takenaka et al.** (US 0200601064950 A1) is withdrawn.

### *Claim Rejections - 35 USC § 102*

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by **Takenaka et al.** (U.S. 6920374)

As per claim 1, **Takenaka et al.** teaches leg type mobile robot (see fig. 1) comprising:  
an body (see fig. 1, being considered as having a body); legs each connected to the body via a first joint (see fig. 1, elements 12(L, R) and 14(L, R) being taken as first joint); and foots each connected to an end part of the leg via a second joint (see fig. 1, elements 18(L, R) and 22(L, R))

being taken as second joint), wherein the foot includes at least one foot portion, which has a ground area to be grounded on a floor surface at the bottom thereof, and a floor reaction force detector for detecting floor reaction force acting from a floor surface through the foot portion (see figs. 2-4), and wherein the center (Pc) of the second joint is offset against the position Pa in a plane view, the position Pa is the position where the distance to the remotest point of at least one ground area becomes minimum (see figs. 1-4, as to becoming minimum falls under design choice), and the center (Pb) of the floor reaction force detector is provided so that the center Pb is in the vicinity of the position Pa than the center Pc of the ankle joint in a plane view (see figs. 18(a)-(b)).

As per claim 2, **Takenaka et al.** teaches leg type mobile robot wherein the center (Pb) of the floor reaction force detector is offset to a rear direction with respect to the position (Pa) (see abstract).

As per claims 3 and 7, **Takenaka et al.** teaches leg type mobile robot wherein the center (Pb) of the floor reaction force detector is positioned on a line segment connecting the position (Pa) and the center (Pc) of the second joint (see figs. 18(a)-(b)).

As per claim 4, **Takenaka et al.** teaches leg type mobile robot wherein 5 the center (Pb) of the floor reaction force detector is offset to a rear direction in a center side of the leg type mobile robot with respect to the position (Pa) (see figs. 2 and 17).

As per claim 5, **Takenaka et al.** teaches leg type mobile robot wherein 10 the center (Pb) of the floor reaction force detector is located on the perpendicular taken down from the center

(Pc) of the second joint to the line segment extended from the position (Pa) to a rear direction (see fig. 1, particularly from the knee down).

As per claim 6, Takenaka et al. teaches leg type mobile robot wherein the center (Pb) of the floor reaction force detector is located on the perpendicular taken down from the center (Pc) of the second joint to the line segment extended from the position (Pa) to a center of the leg type mobile robot (see fig. 1, particularly from the knee down as noted above).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MCDIEUNEL MARC whose telephone number is (571)272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Khoi Tran can be reached on (571) 272-6919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**/McDieunel Marc/**  
Examiner, Art Unit 3664  
Tuesday, March 17, 2009  
/KHOI TRAN/  
Supervisory Patent Examiner, Art Unit 3664